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⑮ **Shield mounting assembly for a safety helmet.**

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EP 0 294 676 B1

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Description

The present invention relates to an assembly for mounting a shield on a safety helmet having a full-face type or jet type configuration which is used when riding a motorcycle or driving an automobile.

In a conventional shield mounting construction for a safety helmet having a full-face type or jet type configuration, the shield and an opening adjustment means for the shield are generally mounted by set screws to the helmet body. More specifically, left and right sides of the shield and parts of the opening adjustment means, such as a ratchet mechanism, are fixedly mounted to the helmet body through a mounting cover.

With the above-mentioned conventional construction, it is sometimes necessary to disassemble a mounting portion of the shield because the shield does not open and close correctly during use. In such case, when the set screws are removed to remove the shield mounting cover from the helmet body, various parts thereof which limit the opening and closing of the shield, fly apart in a disorderly manner. As a result, these parts may be lost.

In addition, with such conventional shield mounting construction, removal of the shield can be performed at a position in which the shield is in its normal operational state, that is, at any position from a fully closed position to a fully open position. Therefore, if the set screws become loose, the shield can possibly separate from the helmet body even during a period of operation thereof.

Prior proposals for the mounting of shields on safety helmets have been made in European Patent Application No. 0080202 and French Patent No. 7615812.

In the European Application, there is disclosed that a shield is pivotally supported on a safety helmet by means of base plates on the helmet and keep covers are placed on the base plates to cover the ends of the shield. However, the keep covers are removable in any position of the shield and therefore the shield can become detached undesirably when in use.

As regards the arrangement in the French Patent the keep corners are secured directly to the helmet and the shield is pivotally mounted on the keep covers. Therefore if the keep covers are removed, and they can be in any position of the helmet, the shield becomes detached.

It is an object of the present invention to provide a mounting construction for a shield of a safety helmet that overcomes the aforementioned problems in the prior art.

It is another object of the preferred form of the invention to provide such a mounting construction in which the shield can be engaged with and held

on the helmet body without the use of set screws.

It is yet another object of the preferred form of the invention to provide such a mounting construction in which even if the shield keep cover and shield are removed from the helmet body, support members for the shield do not fly apart in pieces.

In accordance with the present invention there is provided a shield mounting assembly for a safety helmet of the type having a helmet body and a front opening said assembly comprising:

(a) base plates secured to left and right outer surfaces of the helmet body, each base plate comprising an axle mounting

(b) a visor shield having mounting holes in the ends thereof and in which said axle mountings are fitted and the shield has limited pivotal movement thereon between open and closed positions; and

(c) shield keep covers detachably connected, by means of engaging projecting portions on said keep covers, to said base plates so as to cover the shield ends whilst permitting said cover limited pivotal motion of the visor shield on the axle mountings;

characterised in that each mounting hole comprises a notch and each axle mounting includes an engaging recess receiving a said engaging projection which can be disengaged from the recess only when the shield is in a predetermined position in which the notch and the recess are aligned.

The above and other objects, features and advantages of the present invention will become readily apparent from the following detailed description thereof which is to be read in connection with the accompanying drawings of which:-

Fig. 1 is an exploded perspective view of a helmet according to the present invention;

Fig. 2 is a perspective view of the helmet of Fig. 1, shown in assembled condition;

Fig. 3 is an enlarged plan view, partly in phantom, of the mounting assembly of the helmet of Fig. 1, showing the shield in a fully closed position;

Fig. 4 is an enlarged plan view, partly in phantom, of the mounting assembly of Fig. 3, showing the shield in a fully opened position, and the stopper engaged within the engaging hole;

Fig. 5 is an enlarged plan view, partly in phantom, of the mounting assembly of Fig. 3, showing the shield in a fully opened position, with the stopper being removed from the engaging hole;

Fig. 6 is a cross-sectional view of a portion of the helmet of Fig. 1, showing the stopper of the shield keep cover engaged in the engaging hole of the engaging base plate;

Fig. 7 is a cross-sectional view of a portion of the helmet of Fig. 1 showing the lock mecha-

nism for maintaining the shield in its fully closed position;

Fig. 8 is a cross-sectional view of the mounting assembly of Fig. 3, taken along line 8-8 thereof; and

Fig. 9 is a perspective view of the helmet of Fig. 1, showing the shield keep cover disassembled from the helmet, but connected by means of a string.

An embodiment of a mounting construction for a shield of a safety helmet according to the present invention will now be described with reference to the drawings, in which there is shown a helmet body 1, a shield 2, an engaging base plate 3 secured to left and right outer surfaces of helmet body 1, and a shield keep cover 4.

Helmet body 1 is shown with a full-face type configuration, which is generally known. However, helmet body 1 can have a jet type configuration. Engaging base plates 3 are provided to support shield 2 and are fixed by set screws 5 to the left and right outer sides of helmet body 1. Each engaging base plate 3 is integrally provided with a rotation axle 6 about which shield 2 is rotated, a resilient engaging piece 7 for limiting rotation of shield 2 and a groove 8 into which the lower peripheral edge of shield 2 fits, resilient engaging piece 7 being disposed below rotation axle 6, and groove 8 disposed further below thereof. Each engaging base plate 3 can be molded of either synthetic resin or a metal. In the case where engaging base plates 3 are formed of synthetic resin, a moderating means for limiting rotation of shield 2 can additionally be integrally formed therewith.

Rotation axle 6 includes a projecting piece 6' formed opposite to the upper cut-off straight line surface of rotation axle 6. The projected height of rotation axle 6 is about twice that of the plate thickness of shield 2, such that projecting piece 6' which projects from the outer peripheral surface of rotation axle 6 extends to a position above the plate thickness of shield 2, as best shown in Fig. 8. Rotation axle 6 is formed at its central portion with a through hole into which a set screw 5 is inserted, and a recess 9 (Fig. 8) which receives the head of set screw 5 is formed at the upper side of the through hole. Further, rotation axle 6 is formed on the side of the upper straight line surface with an engaging recess 10, which receives an engaging projecting portion 18 of shield keep cover 4.

Resilient engaging piece 7 is formed into an approximately C-shape by cutting off a part of a circular ring. A part of the outer peripheral surface of resilient engaging piece 7 is connected to base plate 3, and a pawl portion 7' is integrally formed at opposite ends of resilient engaging piece 7 and is directed radially outwardly.

Groove 8 is positioned at the lower end of base

plate 3 and has a width capable of receiving the plate thickness of shield 2. Specifically, the upper and both left and right sides of grooves 8 are open, such that the lower peripheral edge of shield 2 is inserted in groove 8 from the top thereof and guided in a lateral direction, as shown in Figs. 3-5.

An extension 11 formed with a through hole for receiving a set screw 5 is integrally formed at the lower part of each engaging base plate 3, and an engaging hole 12 is formed in a rear, external end portion of extension 11.

Shield 2 opens and closes a front opening or window hole 13 formed in the front surface of helmet body 1 and is formed from a transparent, translucent or coloured transparent synthetic resin plate which is adjusted to the curved shape of helmet body 1. Shield 2 is formed at both left and right sides thereof with a mounting hole 14 through which rotation axle 6 and projecting piece 6' fit, and an arcuate guide hole 15 which receives resilient engaging piece 7 to determine the range of rotation of shield 2.

Mounting hole 14 is continuously formed with a circular hole 14a slightly larger than the outer diameter of axle 6 and a notch 14b at the lower hole edge of hole 14a which receives projecting piece 6'. Hole 14a is also continuously formed at the upper peripheral edge thereof with a notch 14c which receives engaging projecting portion 18 formed on shield keep cover 4 when shield 2 is moved to its upper limit position.

Arcuate guide hole 15 determines the range of rotation of shield 2 and is formed arcuately in surrounding relation about mounting hole 14. Guide hole 15 is formed with a fitting portion 16 at one end thereof, fitting portion 16 engaged with pawl 7' of resilient engaging piece 7 when shield 2 is closed. The width of arcuate guide hole 15 is slightly narrower than the outside diameter of resilient piece 7 when no external force is exerted. A depression 17 is formed halfway along guide hole 15.

Accordingly, when shield 2 is rotated so that depression 17 in guide hole 15 assumes the position of resilient engaging piece 7, the inwardly compressed resilient engaging piece 7 expands into its no-load shape and fits into depression 17. Therefore, shield 2 is engaged and held at a predetermined open position. Thus, shield 2 can be opened and closed in a stepwise manner.

Shield keep cover 4 for covering the support portion of shield 2 is formed of a synthetic resin material, and engaging projecting portion 18 is integrally formed at the upper part of the inner surface thereof in opposing relation to shield 2. In addition, a stopper 19 is mounted at the lower part of the inner surface so that it may be operated from the outside.

Engaging projecting portion 18 fits into and engages with engaging recess 10 formed in the upper side of rotation axle 6 of engaging base plate 3, engaging projecting portion 18 fitting into and disengaging from engaging recess 10 through notch 14c formed in the upper peripheral edge of mounting hole 14a when rotation axle 6 registers with mounting hole 14a of shield 2, that is, in the fully open limit position of shield 2.

Stopper 19 is in the form of a rectangular flat plate and the inside surface at the rear end 19a thereof which fits into and disengages from engaging hole 12 is formed with an inclined surface, as shown in Fig. 6. At the opposite front side thereof, stopper 19 is projectingly formed with a spring-action piece 20 in the form of an arrow for biasing stopper 19 in a direction of being fit into engaging hole at all times. The thus formed stopper 19 fits into a guide piece 21 formed in the back of shield keep cover 4, and spring-action piece 20 thereof fits into a guide piece 22 that narrows toward the rear of shield keep cover 4. Spring-action piece 20 is moved in the direction of the narrowing width of guide piece 22, whereby spring-action piece 20 is inwardly pressed to store a bias force. When the rearwardly moving force is released, stopper 19 is thereby moved by such stored bias force in the opposite direction so as to automatically engage and fit into engaging hole 12.

A projection 19' formed on the outer surface of stopper 19 fronts into a guide hole 29 formed in shield keep cover 4 and is supported slidably left and right therein, as viewed in Fig. 6. An operating plate 23 is joined to projection 19' from the outside of cover 4 and fixed by a set screw 29 so that removal of stopper 19 may be accomplished from the outside.

A lock mechanism 24 is mounted on shield keep cover 4 for maintaining shield 2 in a closed position. Lock mechanism 24 is composed of a lock cam 26 which rotates integral with an operating lever 25 on shield keep cover 4, and an engaging portion 30 of shield 2 which can be engaged with and disengaged from lock cam 26, as shown in Figs. 3-5 and 7.

Shield keep cover 4 is connected to engaging base plate 3 which is secured to helmet body 1, by a flexible connecting string 27 (Fig. 9), for example, a plastic string, to prevent shield keep cover 4 from being completely separated when shield keep cover 4 is disassembled.

The mounting position of engaging base plate 3 relative to helmet body 1 can be on the curved side surface of helmet body 1, as shown, although an offset portion 28 (Figs. 1 and 9) much lower than such shown curved side surface can be used. In such case, if engaging base plate 3 is secured to offset portion 28 and shield keep cover 4 is

engaged therewith so that the outer surface of shield keep cover 4 and the outer surface of helmet body 1 approximately face each other, it is possible to minimize the amount of projection of the outer surface of the helmet.

Next, mounting of shield 2 will be described. First, the left and right sides of shield 2 are engaged with and supported on engaging base plates 3 secured to helmet body 1, such support thereof being set by fitting the lower peripheral edge of shield 2 into groove 8 and fitting and registering the mounting hole 14 and circular guide hole 15 onto axle 6 and resilient engaging piece 7, respectively. In such case, shield 2 is in its upper open limit position.

Thereafter, engaging projecting portion 18 of shield keep cover 4 is fitted into and engaged with engaging recess 10 on the upper side of axle 6 through notch 14c formed in the edge of mounting hole 14 of shield 2. Stopper 19 provided at the underside of shield keep cover 4 is biased and fits into engaging hole 12 formed at the lower part of engaging base plate 3 by means of operating member 23 so that shield keep cover 4 and engaging base plate 3 are integrally engaged and held with each other, thus completing the mounting of shield 2. Thereafter, shield 2 is closed for use.

To remove shield 2, shield 2 is rotated upwardly so that mounting hole 14 is placed in registration with axle 6, and in that state, stopper 19 provided on shield keep cover 4 is pulled out of engaging hole 12, and shield keep cover 4 is raised upwardly so as to be pulled out of helmet body 1. Engaging projecting portion 18 is then removed from engaging recess 10 through notch 14c whereby shield keep cover 4 may be removed. Thereafter, shield 2 can be disengaged from engaging base plate 3.

Thus, with the present invention, shield 2 may be mounted for limited rotation by engagement between engaging base plates 3 secured to the sides of helmet 1 and shield keep covers 4, without the use of set screws. Further, since such support is accomplished by engaging base plates 3 secured to the sides of helmet 1 and shield keep covers 4 which can be engaged and disengaged therefrom, even if shield keep covers 4 are removed from engaging base plates 3 to remove shield 2, such supporting members do not completely separate from each other, that is, do not fly apart in pieces, so that shield 2 may be engaged and disengaged safely. Moreover, since the mounting and removal of shield 2 and shield keep covers 4 can be effected only when shield 2 is rotated to its upper limit position, shield keep covers 4 and shield 2 are opposed to each other when shield 2 is fully closed, to prevent disengagement thereof. Therefore, there is no possible disengagement of

shield 2 in such position.

Having described a specific preferred embodiment of the invention with reference to the accompanying drawings, it will be appreciated that the present invention is not limited to that precise embodiment, and that various changes and modifications can be effected therein by one of ordinary skill in the art without departing from the scope of the invention, as defined by the appended claims.

Claims

1. A shield mounting assembly for a safety helmet of the type having a helmet body (1) and a front opening (13) said assembly comprising:
 - (a) base plates (3) secured to left and right outer surfaces of the helmet body (1), each base plate (3) comprising an axle mounting (6)
 - (b) a visor shield (2) having mounting holes (14) in the ends thereof and in which said axle mountings (6) are fitted and the shield (2) has limited pivotal movement thereon between open and closed positions; and
 - (c) shield keep covers (4) detachably connected, by means of engaging projecting portions (18) on said keep covers (4), to said base plates (3) so as to cover the shield ends whilst permitting said cover limited pivotal motion of the visor shield (2) on the axle mountings (6); characterised in that each mounting hole (14) comprises a notch (14C) and each axle mounting (6) includes an engaging recess (10) receiving a said engaging projection (18) which can be disengaged from the recess (10) only when the shield (2) is in a predetermined position in which the notch (14C) and the recess (10) are aligned.
2. A shield mounting assembly according to Claim 1 characterised by a resilient engaging piece (7) on at least one of said left and right engaging base plates (3), and at least one arcuate guide opening (15) formed in said shield (2) for receiving the or each resilient engaging piece (7) to limit rotation of said shield through said predetermined range of motion.
3. A shield mounting assembly according to Claim 2 characterised in that the or each resilient engaging piece (7) is formed into a substantially C configuration, and the or each arcuate guide opening (15) is formed with different widths to maintain the or each resilient engaging piece (7) and thereby said shield (2) in a selected one of a plurality of different

arcuate positions.

4. A shield mounting assembly according to Claim 2 or 3 characterised in that the or each resilient engaging piece (7) includes a pawl portion (7') and the or each arcuate guide opening (15) includes fitting portion means (16) for receiving said pawl portion (7') in a releasable locking manner so as to releasably lock said shield (2) in a closed position.
5. A shield mounting assembly according to any preceding claim characterised in that at least one of said left and right engaging base plates (7) includes a groove (8) for slidably receiving a lower peripheral edge of said shield (2) therein so as to guide said shield (2) during rotational movement thereof.
6. A shield mounting assembly according to Claim 5, characterised in that each groove (8) is open at an upper portion and side portions thereof to permit slidable movement of said lower peripheral edge of said shield (2) therein.
7. A shield mounting assembly according to any preceding claim, characterised in that at least one of said left and right engaging base plates (3) includes an engaging opening (12) formed in a lower portion thereof, and at least one shield keep cover (4) includes a stopper (19) operable from outside the respective shield keep cover (4) and movable between a position into the engaging opening (12) of a respective engaging base plate (3) and a position removed from said engaging opening (12).
8. A shield mounting assembly according to Claim 7, characterised in that each stopper (19) includes a plate section movable into the engaging opening (12) of a respective engaging base plate (3) and biasing section means (20) connected with said plate section for biasing said plate section into the engaging opening (12).
9. A shield mounting assembly according to Claim 8, characterised in that said plate section is in the form of a rectangular flat plate.
10. A shield mounting assembly according to Claim 8 or 9, characterised in that each respective shield keep cover (4) includes guide piece means (21) for slidable guiding said plate section and spring action piece means (22) for receiving and biasing said biasing section means to move said plate section into the engaging opening (12).

11. A shield mounting assembly according to any preceding claim characterised in that at least one said shield keep cover (4) includes lock means (24) for maintaining said shield (2) in a closed position.

12. A shield mounting assembly according to Claim 11, characterised in that said lock means (24) includes a lock cam (26) rotatable between a first unlocking position and a second locking position in engagement with an engaging portion of said shield (2) and operating lever means (26) for moving said lock cam between said unlocked and locked positions.

Revendications

1. Dispositif de montage de visière d'un casque de sécurité du type comportant un corps de casque (1) et une ouverture frontale (13), ledit dispositif comprenant:

(a) des plaques de base (3) fixées aux surfaces externes gauche et droite du corps de casque (1), chaque plaque de base (3) comprenant un montage d'axe (6);

(b) une visière (2) ayant des trous de montage (14) à chaque extrémité et dans lesquels lesdits montages d'axe (6) sont adaptés et la visière (2) a un mouvement de pivotement limité entre des positions ouverte et fermée; et

(c) des couvercles de garde (4) de visière reliés de manière détachable, au moyen de parties en saillie (18) en contact, sur lesdits couvercles de garde (4), avec lesdites plaques de base (3) de manière à couvrir les extrémités de la visière tout en permettant auxdits couvercles un mouvement de pivotement limité de la visière (2) sur les montages d'axe (6);

caractérisé en ce que chaque trou de montage (14) comporte une encoche (14c) et en ce que chaque montage d'axe (6) comporte un creux d'engagement (10) recevant une dite saillie d'engagement (18) qui peut être séparée du creux (10) uniquement quand la visière (2) est dans une position pré-déterminée dans laquelle l'encoche (14c) et le creux (10) sont alignés.

2. Dispositif de montage de visière suivant la revendication 1, caractérisé par une pièce élastique d'engagement (7) sur au moins une desdites plaques de base gauche ou droite (3), et au moins une ouverture de guidage en arc (15) dans ladite visière (2) pour recevoir la ou chaque pièce élastique (7) pour limiter la rotation de ladite visière à une plage pré-détermi-

née de mouvement.

3. Dispositif de montage de visière suivant la revendication 2, caractérisé en ce que la ou chaque pièce élastique (7) a une configuration approximative en C, et en ce que l'ouverture ou chaque ouverture de guidage en arc (15) a des largeurs différentes pour maintenir la ou chaque pièce élastique (7) et donc ladite visière (2) en une position choisie parmi différentes positions en arc.

4. Dispositif de montage de visière suivant la revendication 2 ou 3, caractérisé en ce que la ou chaque pièce élastique (7) comprend une partie en cliquet (7') et en ce que l'ouverture ou chaque ouverture de guidage en arc (15) comprend un moyen d'adaptation (16) pour recevoir ladite partie en cliquet (7') dans un verrouillage relâchable de manière à verrouiller d'une manière amovible ladite visière (2) en position fermée.

5. Dispositif de montage de visière suivant l'une des revendications précédentes, caractérisé en ce qu'au moins une desdites plaques de base gauche ou droite (3) comprend une gorge (8) pour y recevoir d'une manière coulissante un bord périphérique bas de ladite visière (2) de manière à guider ladite visière (2) pendant son mouvement de rotation.

6. Dispositif de montage de visière suivant la revendication 5, caractérisé en ce que chaque gorge (8) est ouverte dans sa partie supérieure et ses parties latérales pour y permettre le mouvement de glissement dudit bord périphérique bas de ladite visière (2).

7. Dispositif de montage de visière suivant l'une des revendications précédentes, caractérisé en ce qu'au moins une desdites plaques de base gauche et droite (3) comporte une ouverture d'engagement (12) dans sa partie inférieure, et en ce qu'au moins un couvercle de garde de visière (4) comporte une butée (19) pouvant fonctionner de l'extérieur dudit couvercle (4) respectif et étant déplaçable entre une position dans l'ouverture d'engagement (12) d'une plaque de base (3) respective et une position éloignée de ladite ouverture d'engagement (12).

8. Dispositif de montage de visière suivant la revendication 7, caractérisé en ce que chaque butée (19) comprend une partie plate déplaçable dans l'ouverture d'engagement (12) d'une plaque de base (3) d'engagement respective et

d'un moyen ressort (20) relié avec ladite partie plate pour rappeler ladite partie plate dans l'ouverture d'engagement (12).

9. Dispositif de montage de visière suivant la revendication 8, caractérisé en ce que ladite partie plate est en forme de plaque plate rectangulaire. 5

10. Dispositif de montage de visière suivant la revendication 8 ou 9, caractérisé en ce que chaque couvercle de garde (4) respectif comporte une pièce de guidage (21) pour un guidage glissant de ladite partie plate et une pièce agissant en ressort (22) pour recevoir et rappeler ladite partie de rappel afin de déplacer ladite partie plate dans l'ouverture d'engagement (12). 10

11. Dispositif de montage de visière suivant l'une des revendications précédentes, caractérisé en ce qu'au moins un dit couvercle de garde (4) comporte un moyen de verrouillage (24) pour maintenir ladite visière (2) en position fermée. 15

12. Dispositif de montage de visière suivant la revendication 11, caractérisé en ce que ledit moyen de verrouillage (24) comporte une came de verrouillage (26) qui peut tourner entre une première position de déverrouillage et une seconde position de verrouillage en contact avec une partie d'engagement de ladite visière (2) et un levier de fonctionnement (26) pour déplacer ladite came de verrouillage entre lesdites positions déverrouillée et verrouillée. 20

Patentansprüche

1. Vorrichtung zum Befestigen einer Visierscheibe an einem Schutzhelm, welcher einen Helmkörper (1) und eine Frontöffnung (13) aufweist, mit: 25

- (a) Grundplatten (3), welche an linken und rechten Außenflächen des Helmkörpers (1) befestigt sind, wobei jede Grundplatte (3) ein Achslager (6) aufweist:
- (b) einer Visierscheibe (2), an deren Enden Befestigungslöcher (14) vorhanden sind, in welche die Achslager (6) eingepaßt sind, auf denen die Visierscheibe (2) zwischen einer Offen- und einer Schließstellung begrenzt schwenkbar ist, und
- (c) Scheibenhalterungsdeckeln (4), welche mit daran angebrachten, vorspringenden Rasten (18) mit den Grundplatten (3) der Art verbunden sind, daß sie die Scheibenenden abdecken und dabei die begrenzte

Schwenkbewegung der Visierscheibe (2) auf den Achslagern (6) gestatten, **dadurch gekennzeichnet**, daß jedes Befestigungsloch (14) eine Rastkerbe (14C) und jedes Achslager (6) eine Rastausnehmung (10) zur Aufnahme einer Raste (18) aufweist, welche aus der Rastausnehmung (10) nur ausgera- 30 stet werden kann, wenn sich die Visierscheibe (2) in einer vorbestimmten Stellung befindet, in welcher die Rastkerbe (14C) und die Rastausnehmung (10) miteinander fluchten.

2. Befestigungsvorrichtung nach Anspruch 1, **gekennzeichnet durch** einen elastischen Mitnehmer (7) auf wenigstens einer der linken und rechten Grundplatten (3), und durch wenigstens eine, in der Visierscheibe (2) ausgebilde- 35 te, bogenförmige Führungsöffnung (15) zur Aufnahme des oder jedes elastischen Mitnehmers (7), um die Drehbewegung der Visierscheibe (2) über den vorbestimmten Bewegungsbereich zu begrenzen.

3. Befestigungsvorrichtung nach Anspruch 2, **da- durch gekennzeichnet**, daß der oder jeder elastische Mitnehmer (7) im wesentlichen C-förmig ausgebildet ist, und daß die oder jede bogenförmige Führungsöffnung (15) unter- 40 schiedliche Weiten aufweist, um den oder jeden elastischen Mitnehmer (7) und damit die Visierscheibe (2) in einer aus einer Vielzahl unterschiedlicher Winkelstellungen ausgewählten Stellung zu halten.

4. Befestigungsvorrichtung nach Anspruch 2 oder 3, **dadurch gekennzeichnet**, daß der oder jeder elastische Mitnehmer (7) einen Sperrklin- 45 kenbereich (7') aufweist und daß die oder jede bogenförmige Führungsöffnung (15) ein Formstück (16) zur Aufnahme des Sperrklinkenbe- reiches (7') nach Art einer lösbar Verriegelung aufweist, um die Visierscheibe (2) in einer Schließstellung lösbar zu verriegeln.

5. Befestigungsvorrichtung nach einem der vor- 50 hergehenden Ansprüche, **dadurch gekenn- zeichnet**, daß wenigstens eine der linken und rechten Grundplatten (3) eine Nut (8) zur gleit- baren Aufnahme einer unteren Umfangskante der Visierscheibe (2) im Sinne einer Führung der Visierscheibe (2) während deren Drehbe- wegung aufweist.

6. Befestigungsvorrichtung nach Anspruch 5, **da- durch gekennzeichnet**, daß jede Nut (8) an einem oberen und seitlichen Abschnitt offen ist, um eine Gleitbewegung der unteren Um- 55

fangskante der Visierscheibe (2) in der Nut (8) zu ermöglichen.

7. Befestigungsvorrichtung nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet**, daß wenigstens eine der rechten und linken Grundplatten (3) eine in ihrem unteren Abschnitt ausgebildete Rastöffnung (12) aufweist, und daß wenigstens ein Scheibenhalterungsdeckel (4) eine Sperre (19) aufweist, welche von außerhalb des betreffenden Scheibenhalterungsdeckels (4) betätigbar und zwischen einer in die Rastöffnung (12) einer zugeordneten Grundplatte (3) eingerückten sowie einer aus der Rastöffnung (12) ausgerückten Stellung bewegbar ist. 5

8. Befestigungsvorrichtung nach Anspruch 7, **dadurch gekennzeichnet**, daß jede Sperre (19) einen in die Rastöffnung (12) einer zugeordneten Grundplatte (3) hineinbewegbaren Zungenabschnitt sowie einen damit verbundenen Spannabschnitt (20) aufweist, um den Zungenabschnitt in der Rastöffnung (12) vorzuspannen. 10 20

9. Befestigungsvorrichtung nach Anspruch 8, **dadurch gekennzeichnet**, daß der Zungenabschnitt die Form einer rechteckigen flachen Platte aufweist. 15 25 30

10. Befestigungsvorrichtung nach Anspruch 8 oder 9, **dadurch gekennzeichnet**, daß jeder zugeordnete Scheibenhalterungsdeckel (4) zur Gleitführung des Zungenabschnitts ein Führungsstück (21) und zur Aufnahme sowie zur Vorspannung des Spannabschnitts (20) einen Federantrieb (22) aufweist, um den Zungenabschnitt in die Rastöffnung (12) zu bewegen. 35 40

11. Befestigungsvorrichtung nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet**, daß wenigstens einer der Scheibenhalterungsdeckel (4) einen Riegel (24) zum Halten der Visierscheibe (2) in einer Schließstellung aufweist. 45

12. Befestigungsvorrichtung nach Anspruch 11, **dadurch gekennzeichnet**, daß der Riegel (24) eine Sperrnocke (26) aufweist, welche zwischen einer ersten Entriegelungsstellung und einer zweiten Verriegelungsstellung in Eingriff mit einem Verrastungsabschnitt der Visierscheibe (2) drehbar ist, und daß der Riegel (24) ferner einen Betätigungshebel (28) aufweist, um die Sperrnocke (26) zwischen der Entriegelungs- und Verriegelungsstellung zu bewegen. 50 55

FIG. 1

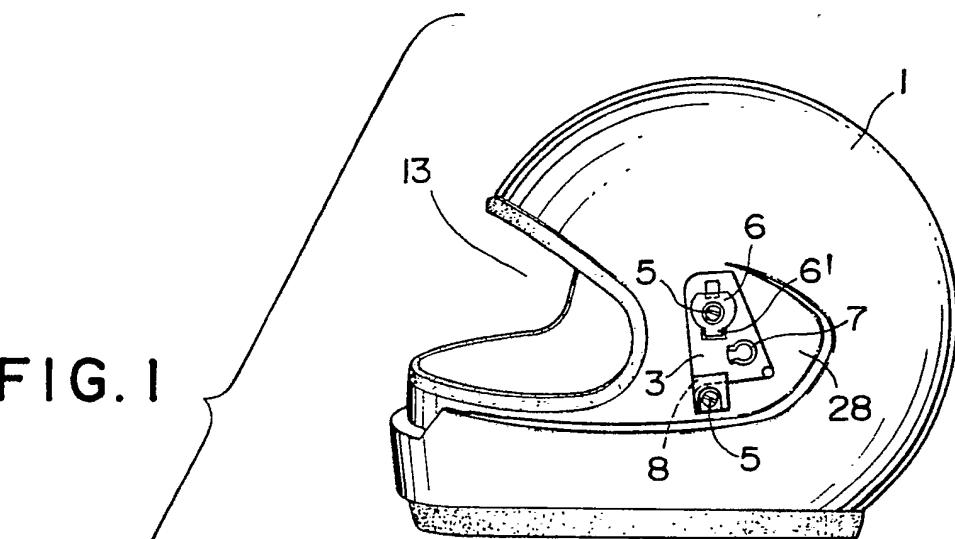


FIG. 2

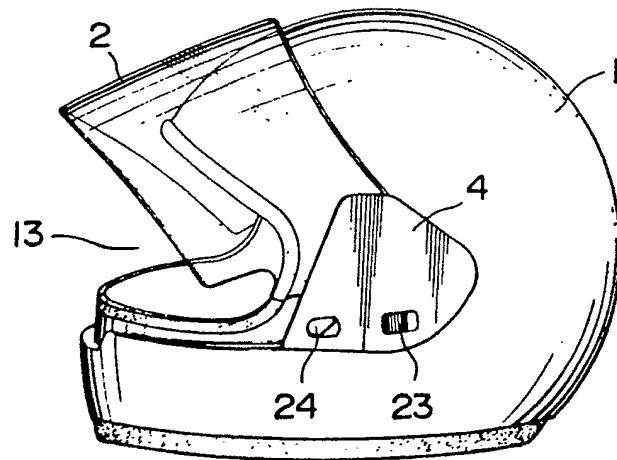


FIG. 3

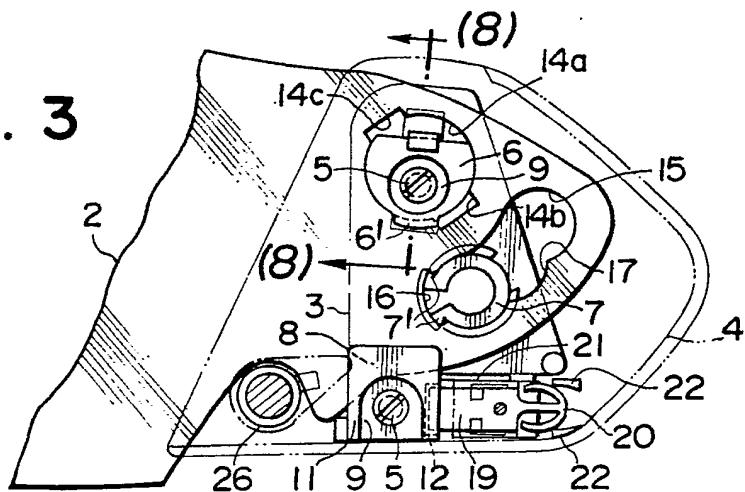


FIG. 4

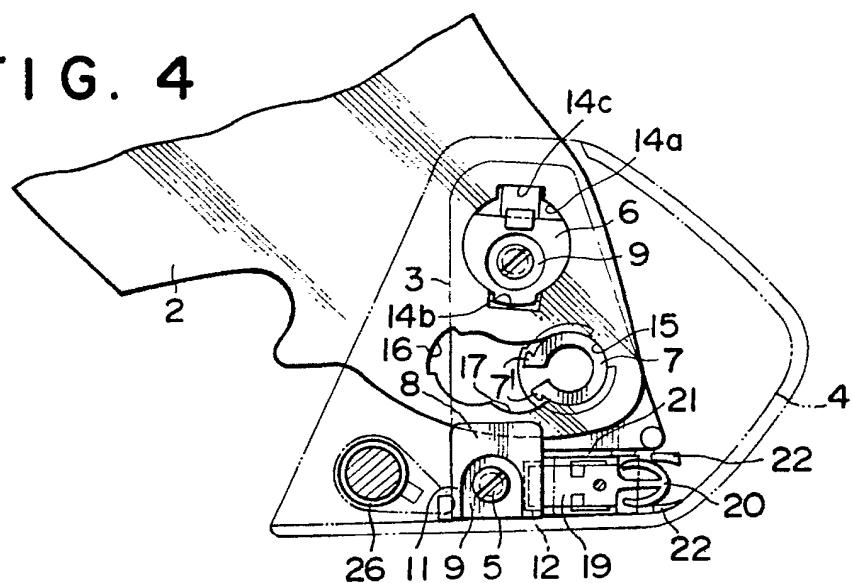


FIG. 5

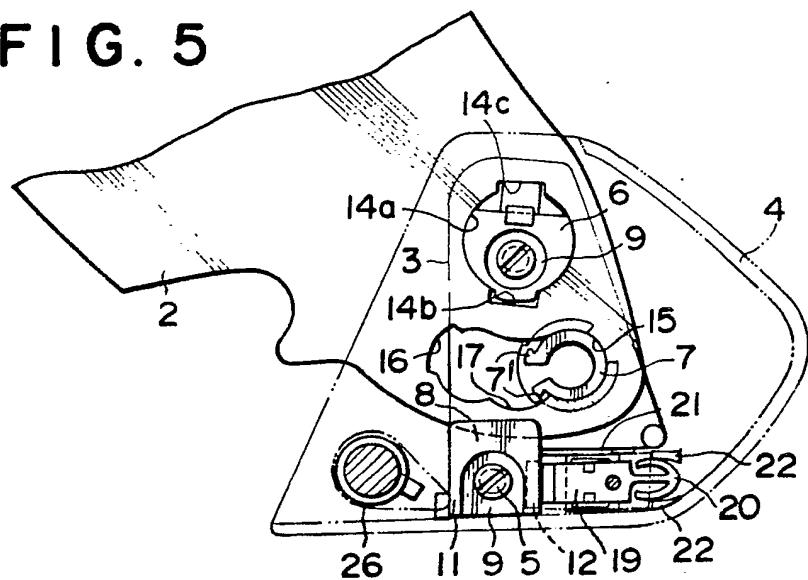


FIG. 6

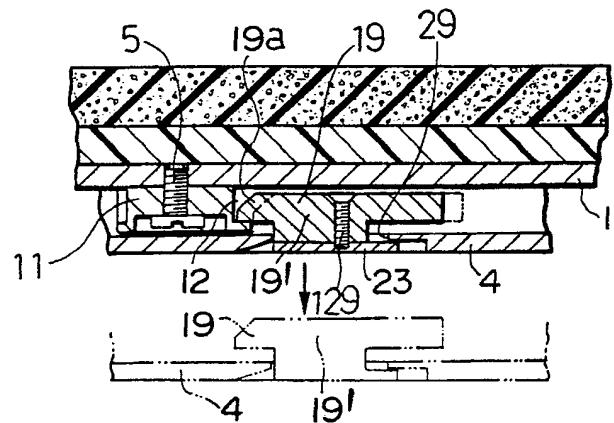


FIG. 7

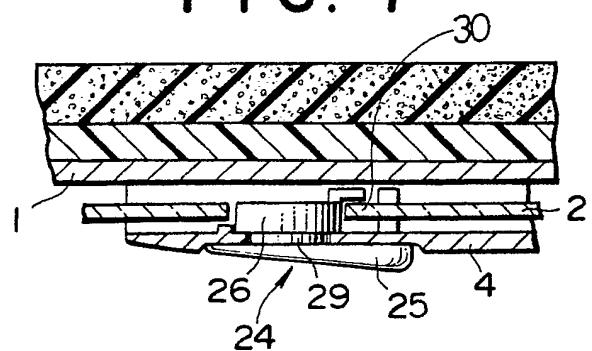


FIG. 9

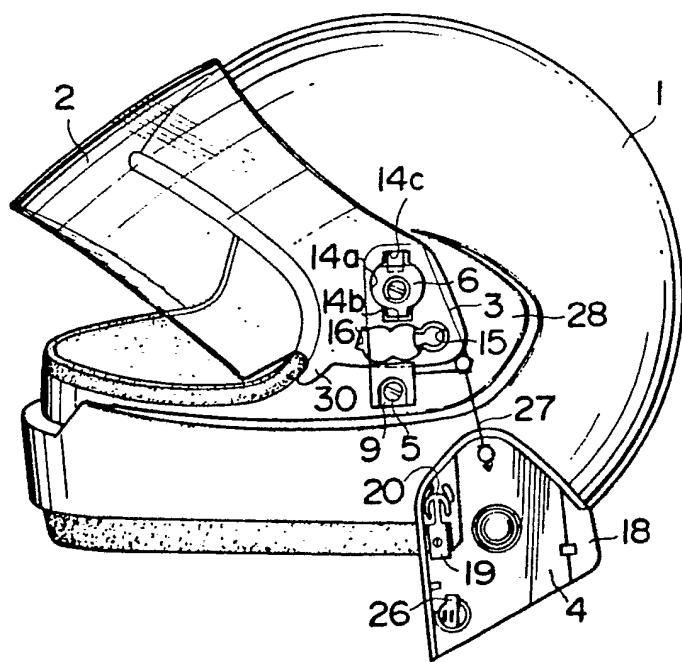


FIG. 8

